

METHOD, DEVICE, AND SYSTEM FOR SECURE MOTOR VEHICLE
REMOTE KEYLESS ENTRY

ABSTRACT

Methods and apparatus are provided for sending an encrypted command message from a remote keyless entry device to a receiver in a motor vehicle. The method comprises defining a key generating key within
5 the remote keyless entry device, and using that key generating key to generate a working key. The working key is transmitted from the remote keyless entry device to the receiver during a training session without transmitting the key generating key. The working key is modified each
10 the training session, a message encrypted with the working key can be transmitted from the remote keyless entry device to the motor vehicle receiver where the encrypted message is decrypted with the working key.